

ATTACHMENT 1 TO  
APPENDIX 1 TO  
ANNEX A TO THE  
NZDF/USDCE AGREEMENT CONCERNING  
DEFENSE COMMUNICATIONS SERVICES

SIMPSON SYSTEM DIAGRAM

1. Situation. The SIMPSON Communications primary path consists of Time Division Multiplex System (TDMS) and Asynchronous Transfer Mode (ATM) switches routed via leased commercial facilities between Fort Detrick, Frederick, MD and Canberra, AS and between Canberra, AS and Wellington, NZ. The restoral path is via HF radio systems of the Governments of the U.S., AS and NZ.

2. Mission. The purpose of the System Diagram is to provide accurate configuration of the TDMS primary and restoral paths. The diagram and TSOs will provide the channelization of the equipment, channel/circuit termination, pass through circuits, and multi-point circuits in each respective country.

3. Administration. The diagram applies to affected DCS/GIG activities (U.S., AS, and NZ) associated with the SIMPSON circuit. All stations should ensure that the diagram is readily available to all supporting technical control facilities.

4. Date of Effect. This diagram is effective upon receipt. Recommendations for changes shall be passed by DISA-PAC to Defence Information Systems Group (DISG) for incorporation into the diagram.

5. Record of Changes. Changes and revisions to the diagram shall be issued by DISG with identifying consecutive revision numbers, date of revision, and approval agent's signature/approval. Fact-of-Life changes can be made to the diagram by DISG.

Remaining in Effect. This diagram and attachment to the basic Agreement is valid only as long as the basic Agreement remains in effect.

6. Annual Review. The SIMPSON system diagram will be reviewed annually by the U.S., AS and NZ representatives to the SIMPSON Technical Working Group.

ANNEX B TO THE  
NZDF/USDOD AGREEMENT CONCERNING  
DEFENSE COMMUNICATIONS SERVICES

COMMUNICATIONS PRACTICES AND PROCEDURES

1. Purpose. The purpose of this Annex is to establish standard communications practices and procedures for the handling of Defense communications traffic between the common user networks of the NZDCN and the USGIG DMS.

2. Requirement. A requirement exists to increase the flexibility in the processing of Defense record communications traffic over the communications systems of the NZDCN and the US GIG, covering Southeast Asia, Pacific Ocean area, Continental US and NZ. This requirement involves the following criteria:

- a. Traffic Volume: Approximately 1500 record messages per day each direction between the two systems. This volume may increase to 3000 record messages per day in each direction.
- b. Length of Messages: Normally about 120 groups.
- c. Precedence of Messages: All precedence's included in ACP 121 will be processed.
- d. Classification of Messages: Classified traffic up to and including SECRET will be transferred on-line where proper security equipment is available. Otherwise, classified messages will be off-line encrypted.
- e. Speed of Service: In accordance with precedence (see ACP 121).
- f. Exercise: Utilization of the transfer circuits in the normal processing of day-to-day traffic should provide a satisfactory

indication of their reliability. Exercise of the transfer circuits by special exercise messages is not necessary.

- g. Message Content: Third Party traffic will not be introduced unless specifically arranged on a case-by-case basis. Traffic introduced by either Party will be considered authorized by the other, and third Party considerations in these circumstances are not relevant.
- h. Message Format: Message formats will be as prescribed by ACP 127 and Joint Army, Navy and Air Force Publication (JANAP) 128, unless otherwise authorized by mutual understanding between the Parties. Service message text format and general service message response procedures will be as specified by ACP 127 and JANAP 128.
- i. Keying Material: Appropriate communications security equipment keying material will be provided on a recurring basis by the responsible issuing authority of the USDOD.

### 3. Responsibilities and Coordination

- a. Operations: The USDOD and NZDF telecommunications facilities, identified in the Appendices to this Annex, will be operated in compliance with the terms of this Agreement.
- b. Traffic Constraints: Supervisors of USDOD and NZDF telecommunications facilities identified in the Appendices to this Annex will inform each other should MINIMIZE message conditions be imposed which might affect the processing of traffic under this Agreement. Neither a USDOD nor NZDF facility will refuse to accept traffic from the other as a means of simulating actual failures during exercises.

- c. Official Messages: It will be the responsibility of either Party introducing messages into the other Party's network to limit such traffic to official messages authorized within the terms of this Agreement.

4. Message Processing.

- a. Routing: The routing of messages transferred from one network to the other will be in accordance with the message routing doctrine of the receiving network.
- b. Control: CIO has responsibility for technical arrangements for the interfaces and will collaborate with DISA through Commander, DISA PAC in discharging this responsibility. Local control of NZDCN traffic entering the legacy/DMS system will be implemented by the connected NGC. Legacy/DMS traffic entering NZDCN will be under the local control of the NZDCN Communications Centre managing the connected interface station.
- c. Publications: The following publications will be used in the processing of traffic to be exchanged under the terms of this Agreement.

- (1) ACP 121 Communications Instructions - General.
- (2) ACP 117 (Series) Allied Routing Indicator Book.
- (3) ACP 127 Communications Instructions - Tape Relay Procedures.
- (4) ACP 131 Communications Instructions - Operating Signals.
- (5) ACP 122 Communications Instructions - Security.
- (6) JANAP 128 Automatic Digital Network (legacy/DMS) Operating Procedures.

d. Impaired Conditions: The following procedures will apply in the event of impairment/loss of traffic processing capabilities.

(1) Failure or isolation of NGC Detrick. Traffic destined for transfer between the legacy/DMS and NZDCN will be held in the respective networks until operational capabilities are restored.

(2) Transmission Media Impairment or Outage. The Restoral Plan (Appendix F) will be implemented for transmission media impairment or extended outage.

5. Applicability: The practices and procedures set forth in this Annex apply to USDOD and NZDF message originators as well as their telecommunications facilities processing messages under the terms of this Agreement.

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ANNEX B TO THE  
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DEFENSE COMMUNICATIONS SERVICES

NGC - SECNET INTERFACE OPERATING PROCEDURES

1. Purpose. To specify the operational features of the interface between the legacy/DMSNGC at Fort Detrick, Frederick, MD and the New Zealand Secure Network (SECNET) at Wellington, NZ that are essential to the efficient transfer of record message traffic.
2. Introduction. This Appendix is an integral part of Annex B and supplements that Annex by stating technical characteristics and resource responsibilities pertaining to the Detrick - Wellington interface.
3. Technical Characteristics. The technical characteristics of this interface are listed in Attachment 1.
4. Resource Responsibilities. Responsibilities for the resources required to establish this interface are as shown in Attachment 2.
5. Duration. This Appendix is effective for the same period of time as the Agreement of which it is a part and is subject to the same modification provisions as set forth in that Agreement.

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TECHNICAL CHARACTERISTICS OF NGC - SECNET INTERFACE

CIRCUIT CONNECTIVITY POINTS	NGC DETRICK	WELLINGTON SECNET
CIRCUIT IDENTIFICATION	DULQSDXV	DCN602
CIRCUIT SPEED	1.2 KBPS	SAME AS US
COMMUNICATIONS MODE	MODE I	SAME AS US
NET CONTROL STATION (TRAFFIC)	NGC DETRICK	NGC DETRICK
ALTERNATE TRAFFIC ROUTE	VIA AUSTRALIA	VIA AUSTRALIA FOR US TRAFFIC; VIA US FOR CANADIAN TRAFFIC
MESSAGE FORMAT	ACP 127	SAME AS US
PRECEDENCE (HIGHEST)	FLASH	SAME AS US
SECURITY LEVEL (HIGHEST)	SECRET	SAME AS US
TRAFFIC HANDLING	US/NZ COMMON USER NARRATIVE TRAFFIC	SAME AS US
TERMINAL EQUIPMENT	MESSAGE SWITCH	SECNET TERMINATION
COMSEC EQUIPMENT	KG-84C	KG-84C



ATTACHMENT 2 TO  
APPENDIX 1 TO  
ANNEX B TO THE  
NZDF/USDOD AGREEMENT CONCERNING  
DEFENSE COMMUNICATIONS SERVICES

RESOURCE RESPONSIBILITIES FOR -NGC DETRICK-  
WELLINGTON SECNET INTERFACE

<u>RESOURCE</u>	<u>AT DETRICK</u>	<u>AT WELLINGTON</u>
1. PREPARE SITE	US	NZ
2. PROVIDE AND INSTALL EQUIPMENT:		
a. TERMINAL	US	NZ
b. COMSEC	US	NZ
c. MODE I INTERFACE DEVICES	US	US
3. PROVIDE AND MAINTAIN INTERCONNECT CIRCUIT	US	NZ
4. OPERATE AND MAINTAIN EQUIPMENT:		
a. TERMINAL	US	NZ
b. COMSEC	US	NZ
c. INTERFACE DEVICE	US	US/NZ (See Note)
5. LOGISTIC SUPPORT:		
a. TERMINAL	US	NZ
b. COMSEC	US	NZ
c. INTERFACE DEVICE	US	NZ (See Note)

Note: Two Mode I Modular AUTODIN Interface Devices (MAID's) were transferred to NZDF by the USDOD; one for one-line operation and one as spare. Failure of one of the devices requires NZDF to ship part or all of the MAID to the US for repair and return. Repair is funded by NZDF.

ANNEX C TO THE  
NZDF/USLCD AGREEMENT CONCERNING  
DEFENSE COMMUNICATIONS SERVICES

POSTAL AND MESSAGE ADDRESSES OF AUTHORITIES CONCERNED  
WITH NZDF-USDOD TELECOMMUNICATIONS AGREEMENTS

The purpose of this Annex is to identify the NZDF and USDOD authorities concerned with this Agreement.

1. NEW ZEALAND

POSTAL ADDRESS

- a. Chief Information Officer  
CIS Branch  
Headquarters NZ Defence Force  
Private Bag 39997  
Wellington, NZ

MESSAGE ADDRESS

HQNZDF  
(SIC SAC)

2. UNITED STATES

POSTAL ADDRESS

- a. Director  
Defense Information Systems Agency  
ATTN: Code GS31  
5275 Leesburg Pike  
Falls Church, VA 22041-3801
- b. Commander  
Defense Information Systems Agency,  
Pacific Area  
Wheeler AAF, HI 96854
- c. U.S. Commander, Pacific  
Camp H.M. Smith, HI 96861
- d. Commanding Officer  
U.S. Naval Computer and Telecommunications  
Area Master Station-Eastern Pacific  
Wahiawa, HI 96786
- e. Commanding Officer  
U.S. Naval Computer and Telecommunications  
Station  
FPO San Francisco, CA 96680

MESSAGE ADDRESS

DISA WASHINGTON DC  
//GS31//

DISA PAC WHEELER  
AAF HI//PC4//

CDR USPACOM  
HONOLULU  
HI//J611//

NCTAMS PAC GQ  
HONOLULU Hawaii

NAVCOMTEL STA GUAM GU  
GQ

ANNEX F TO THE  
NZDF/USDOD AGREEMENT CONCERNING  
DEFENSE COMMUNICATIONS SERVICES

FUNDING AGREEMENTS

SIMPSON System

1. Responsibilities for operation of trunk lease charges are contained in Appendix 1 to Annex A; specifically:

- a. Payment for trans-Pacific DS3 (44.736Mbps) trunk - USDOD and ASDF.
- b. Payment for trans-Tasman trunk - NZDF.
- c. Payment for local circuit in NZ - NZDF.

Costs of trunk lease charges are apportioned in accordance with allocation of system capacity, as stated in paragraph 3.

2. Unless otherwise stated in this Agreement, spare system capacity either existing at the time this Agreement becomes effective or created as a result of subsequent system expansion, equitably will be made available on a reimbursable basis to either Party as valid requirements are identified. Appendix 1 to Annex A reflects the existing spare capacity. This Appendix will be updated on a regular basis to reflect configuration changes.

3. Each Party's share of the cost of the system will be determined by the percentage of capacity used by that Party at the AN/FCC-100(V) level of multiplexing, relative to the total capacity in use at that level. Allocation of circuit capacity is outlined in Appendix 1 to Annex A.